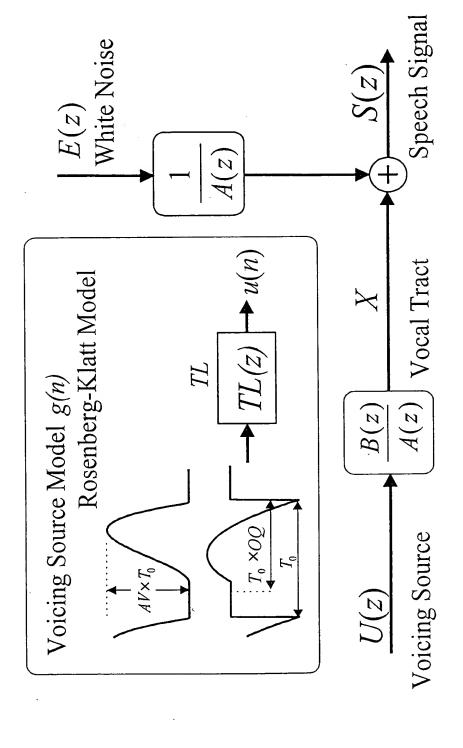
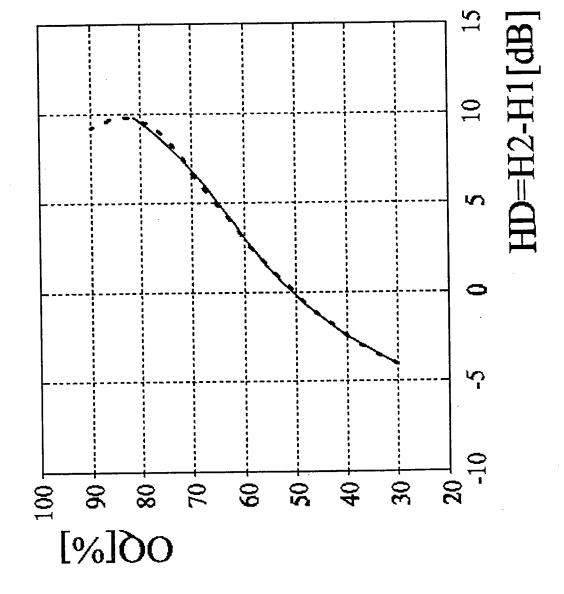
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066



<u>|</u>

2/30

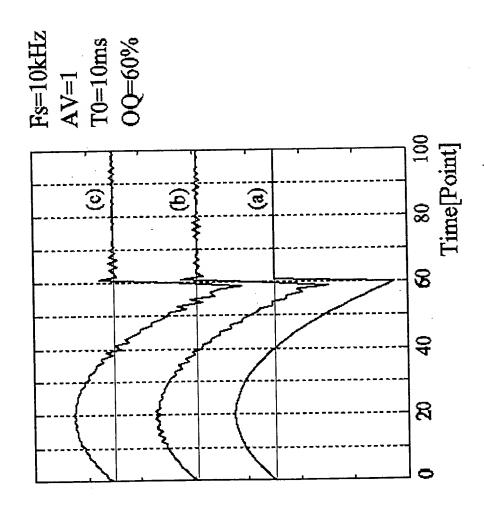
汉



## Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-00066

3\30

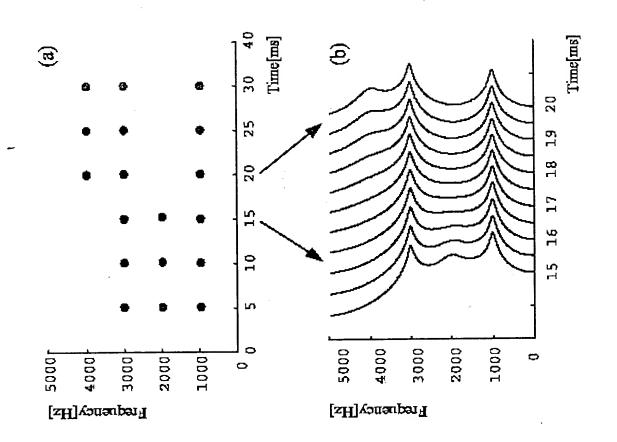
<u>※</u>



### Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066

4/30

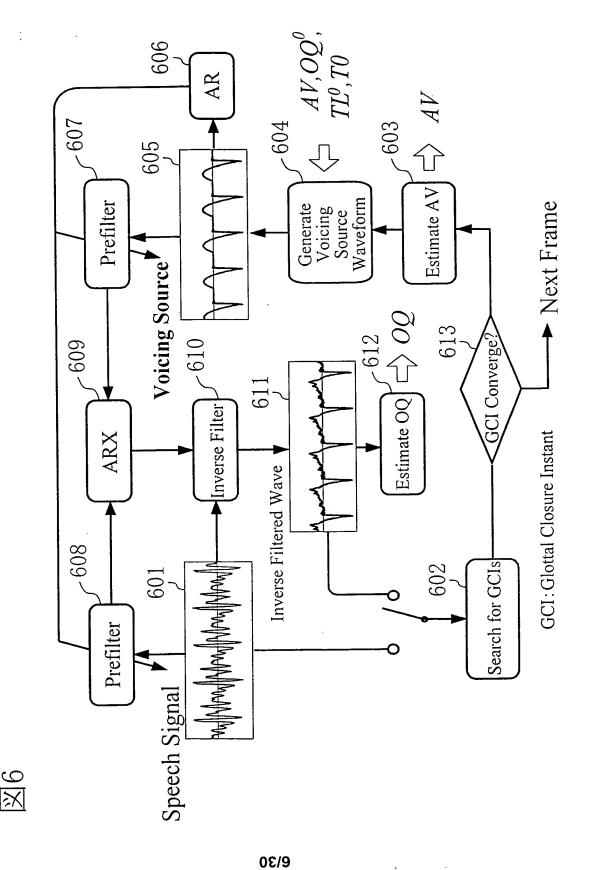




#### 9\30

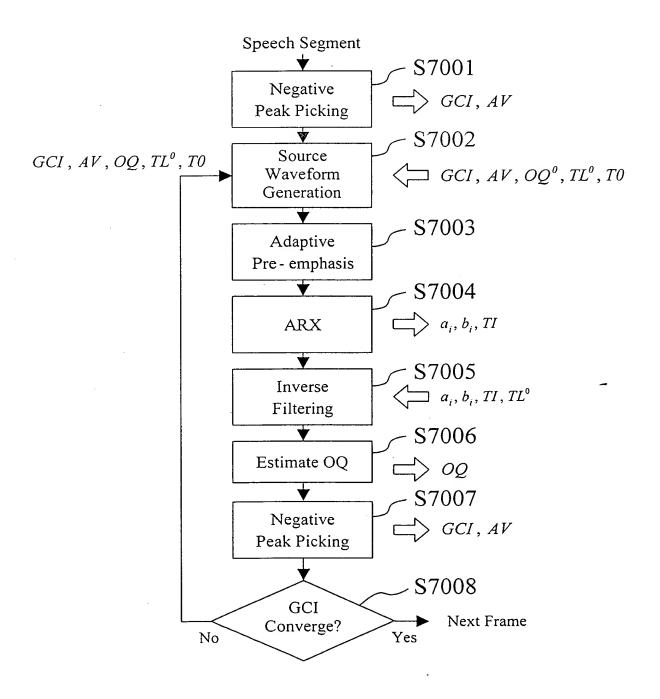
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM

	ARX	MCEP
Low-Pitch Speech (14)	51%	
High-Pitch Speech (9)	71%	
Converted Speech (23)	64%	



7/30

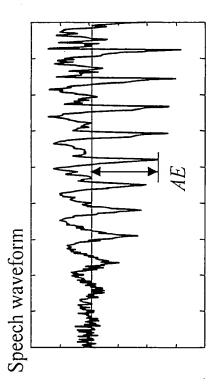
図7

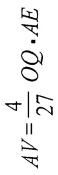


COSSIVE COLUBIA

8/30

RK model waveform



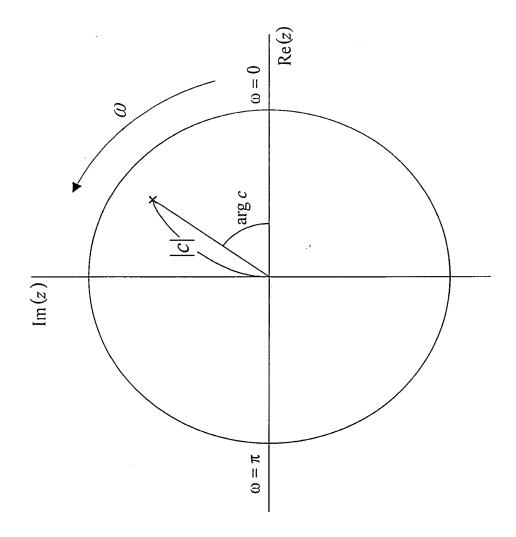


AE: Peak value

## Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM AND SPEECH SYNTHESIS SYSTEM

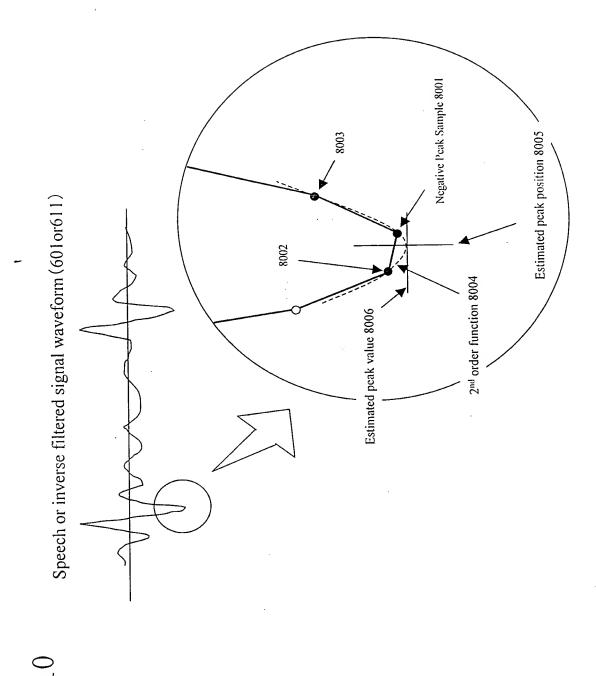
9/30

<u>※</u>



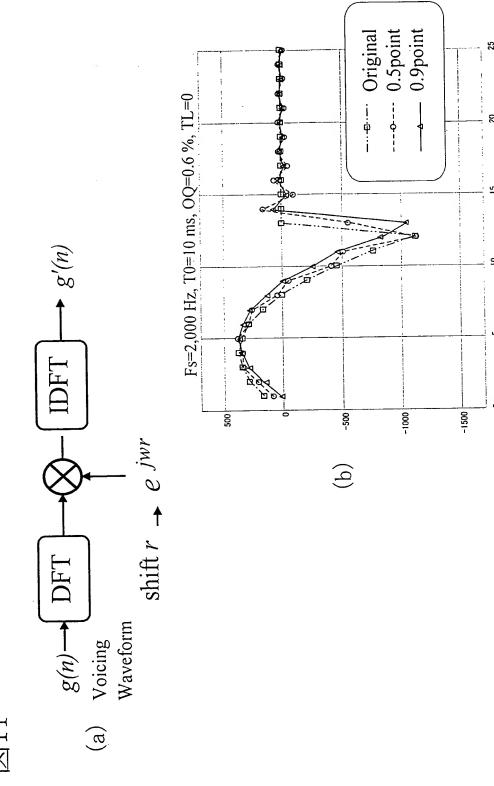
10/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM AND SPEECH SYNTHESIS SYSTEM



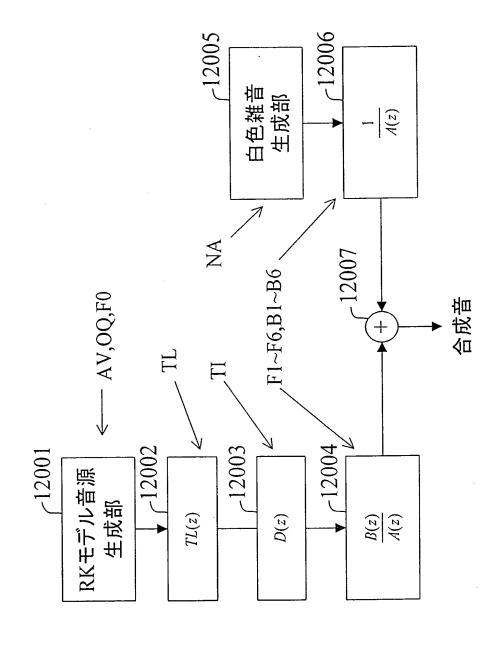
# Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM

11/30



12/30

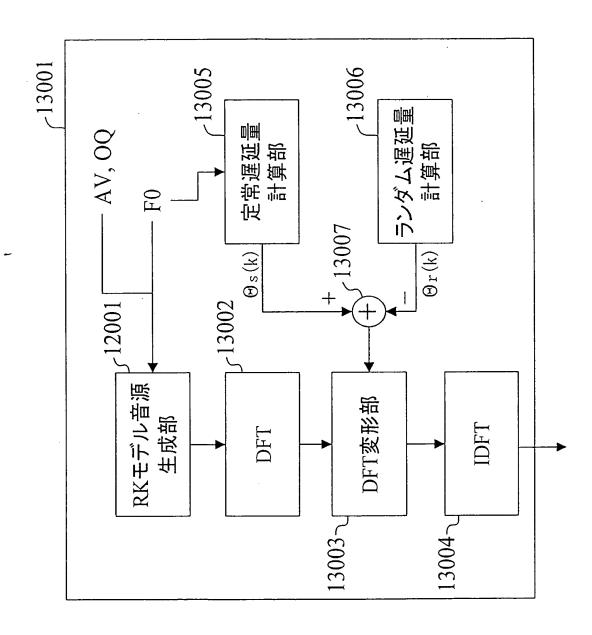
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM



#### Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066

13/30

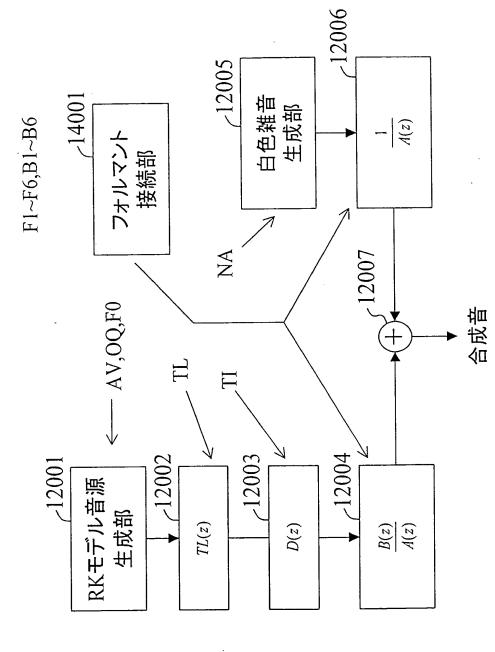
| |X



巡14

14/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066



12/30

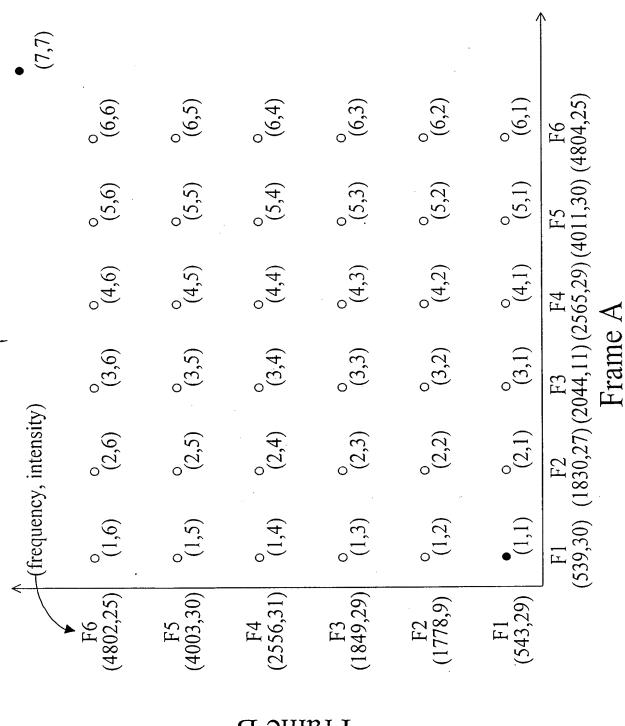
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066

Frame A Frame B

Frame Number

Erame B

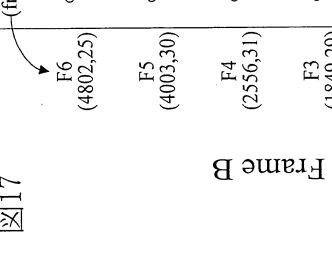
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM AND SPEECH SYNTHESIS SYSTEM

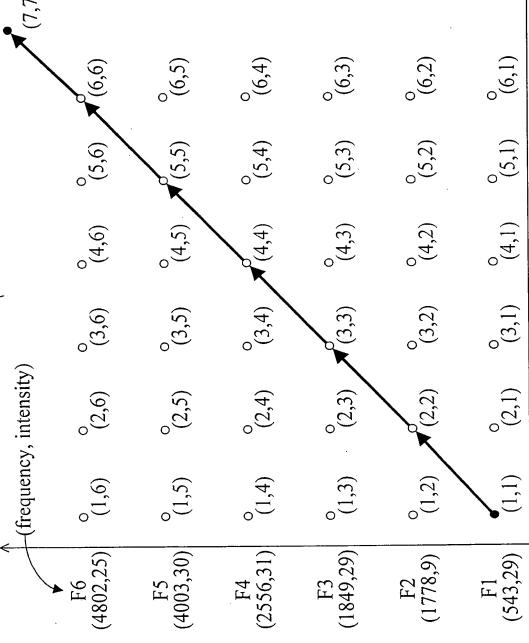


17/30

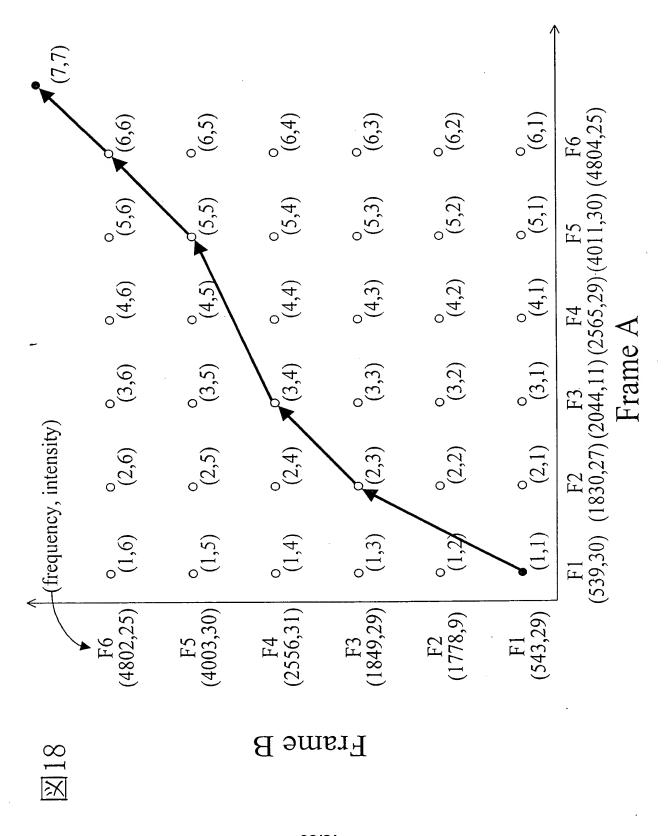
Atty. Ref. No.: 5077-00066 Inventor: TAKAHIRO KAMAI

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM



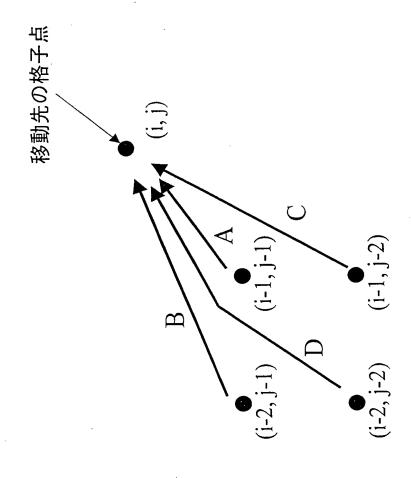


18/30



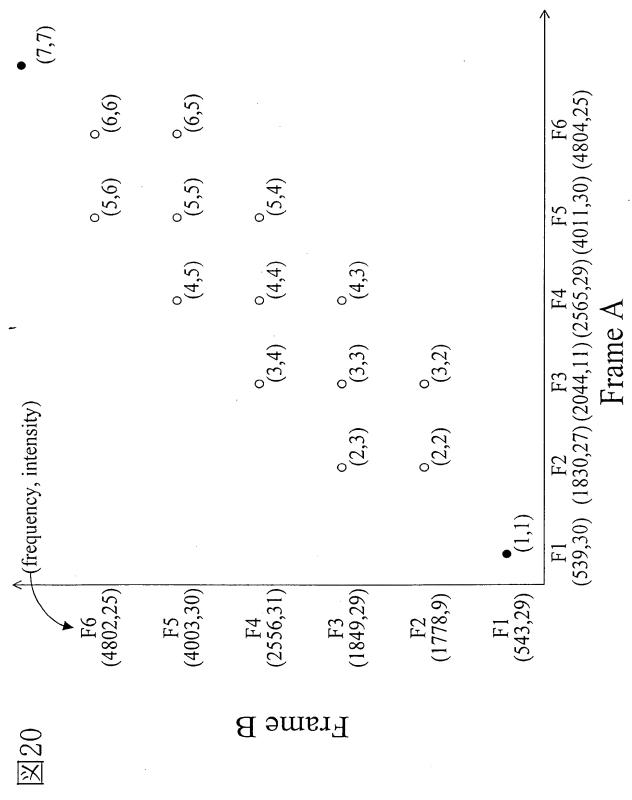
19/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM

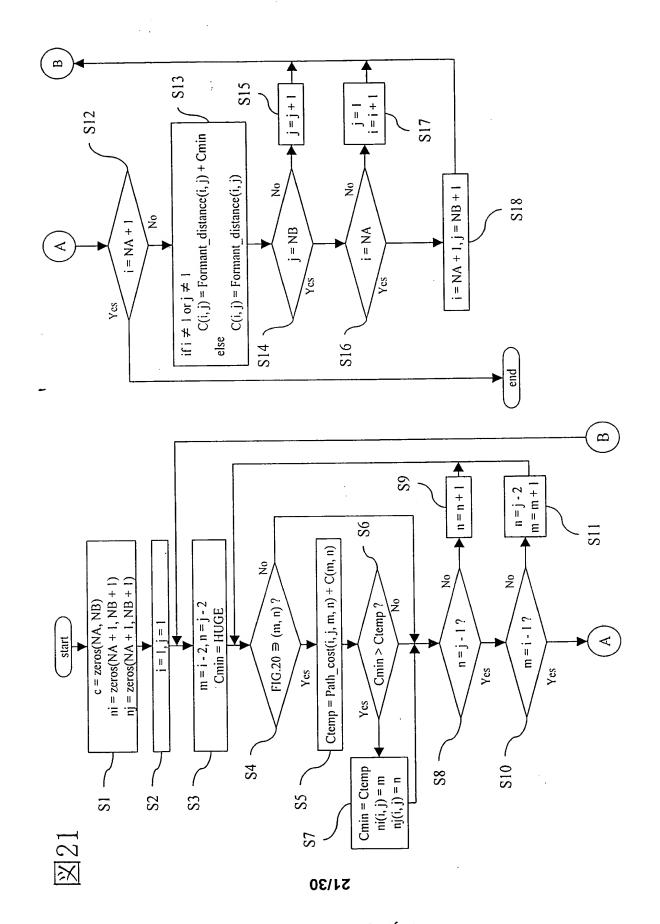


20/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066

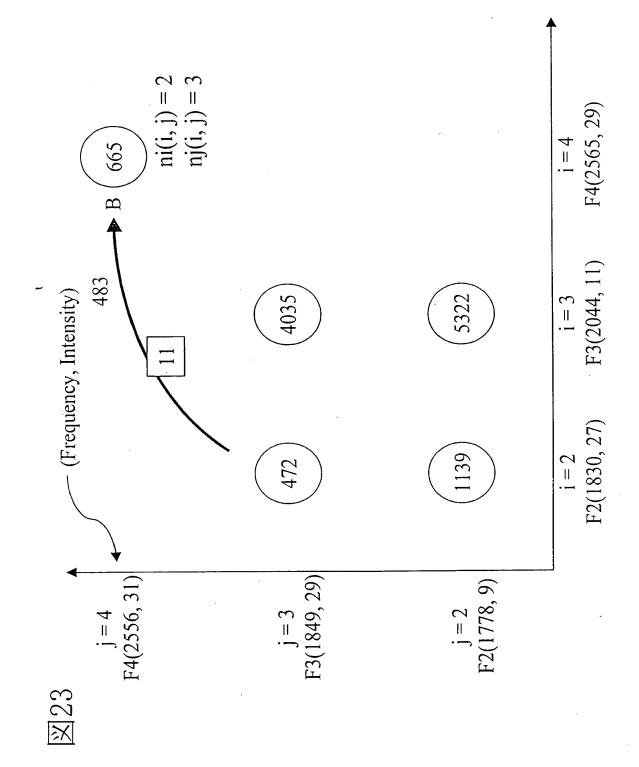


## Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM ALTY. Ref. No.: 5077-000066



22/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Inventor: TAKAHIRO KAMAI Atty. Ref. No.: 5077-000066



23/30

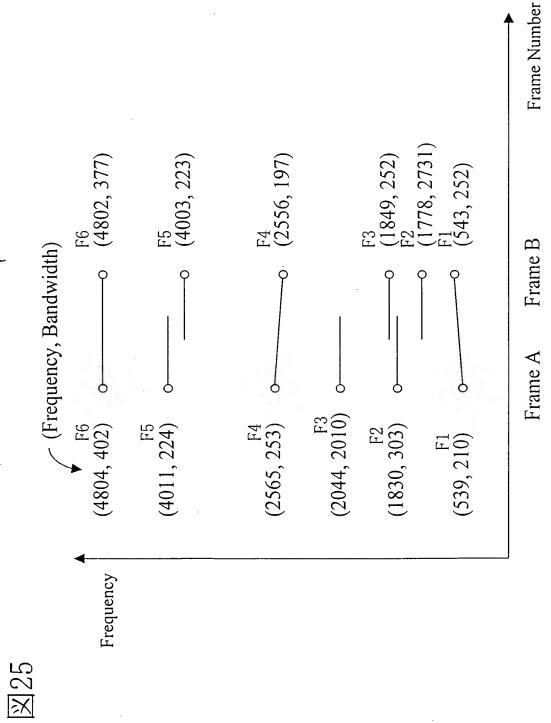
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066

(6,6)roerso. Zacaen (4,4)(frequency, intensity) Frame B

24/30

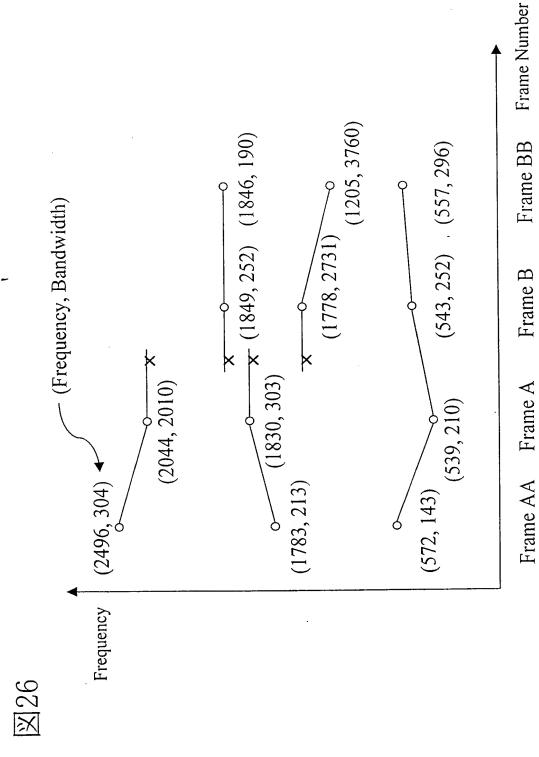
F2 (1778,9) F1 F2 F3 F4 F5 F6 (539,30) (1830,27) (2044,11) (2565,29) (4011,30) (4804,25) Frame A

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066



72/30

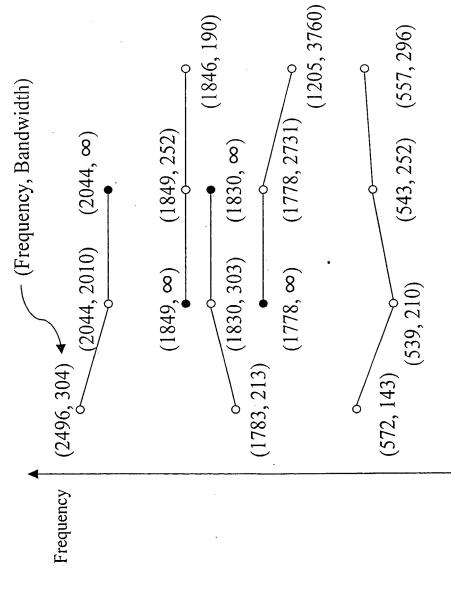
Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066



26/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066





Frame Number

Frame BB

Frame B

Frame A

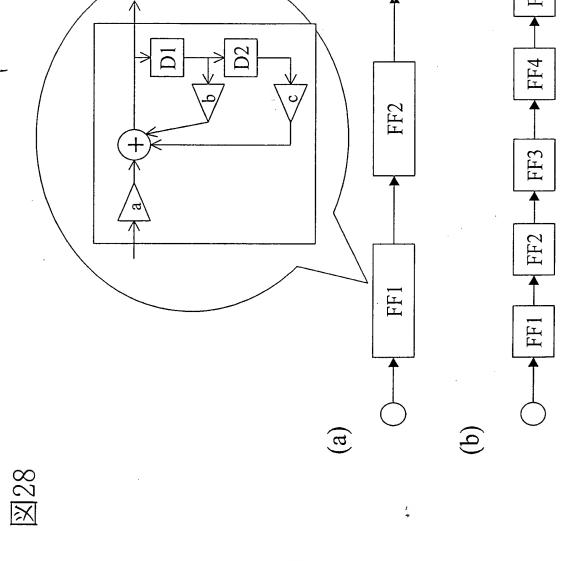
Frame AA

27/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Inventor: TAKAHIRO KAMAI Atty. Ref. No.: 5077-000066

### Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM Atty. Ref. No.: 5077-000066

28/30



FF3

#### 29/30

Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM

	Frame AA	Frame A	Frame B	Frame BB
FF1	572,143,1	539,210,1	543,252,1	557,296,1
FF2	1783,213,2	1778,∞,0	1778,2731,2	1778,2731,2 1205,3760,2
FF3	2496,304,3	1830,303,2	1830,∞,3	1846,190,4
FF4	0,0,0	1849,∞,0	1849,252,4	0,0,0
FF5	0,0,0	2044,2010,3	2044,∞,5	0,0,0
FF6	0,0,0	0,0,0	0,0,0	0,0,0

F: frequency
B: band-width
N: previous filter number

## Title: SPEECH ANALYSIS METHOD AND SPEECH SYNTHESIS SYSTEM PARTY. Ref. No.: 5077-000066

